INTERNATIONAL SEARCH REPORT

International application No.

	×		PCT/JP2	004/014919
A. CLASSIFIC Int.Cl	CATION OF SUBJECT MATTER C07K16/00, 1/02, C12N15/09			1
According to Int	ernational Patent Classification (IPC) or to both nation	al classification and IPC		
B. FIELDS SE				
Minimum docum	nentation searched (classification system followed by cl	lassification symbols)		
Int.Cl	C07K1/00-16/46, C12N15/00-90			
0				
Documentation 5	searched other than minimum documentation to the exte	ent that such documents	are included in the	fields searched
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Electronic data b	ease consulted during the international search (name of FILE (JOIS), EUROPAT (QUESTEL), b	data base and, where pr MEDLINE/BIOSI	racticable, search ter S/WPIDS (STN	ms used))
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the releva	int passages	Relevant to claim No.
Y	JP 07-502497 A (THE WELLCOME 16 March, 1995 (16.03.95), & WO 1993/008837 A1 & US	5792838 A	LTD.),	1-4
Y	WO 1999/037329 A1 (AKTIEBOLA 29 July, 1999 (29.07.99), & SE 9800170 A	∆G),		1-4
. У	WO 2000/066160 Al (Yamanouch Pharmaceutical Co., Ltd.), 09 November, 2000 (09.11.00), 6 EP 1174148 Al			1-4
*	0			
	cuments are listed in the continuation of Box C.	See patent fan	<u> </u>	
"A" document d	gories of cited documents: efining the general state of the art which is not considered icular relevance	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier appli filing date	cation or patent but published on or after the international	"X" document of part considered nove step when the do	icular relevance; the e I or cannot be conside cument is taken alone	laimed invention cannot be lered to involve an inventive
"L" document which may throw doubts on priority elaim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"P" document p	ferring to an oral disclosure, use, exhibition or other means ublished prior to the international filing date but later than date elaimed	being obvious to "&" document member	a person skilled in the er of the same patent f	amily
Date of the actua 18 Nove	d completion of the international search ember, 2004 (18.11.04)	Date of mailing of the international search report 07 December, 2004 (07.12.04)		
Name and mailir Japane:	ng address of the ISA/ se Patent Office	Authorized officer	*	
Facsimile No.		Telephone No.		
Form PCT/ISA/21	0 (second sheet) (January 2004)			

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	PCT/JP2		004/014919	
C (Continuation)	, DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.			m No.
Y	JP 06-189781 A (Mitsui Toatsu Chemicals, 12 July, 1994 (12.07.94), (Family: none)	Inc.),	1-4	
A	B. CHEN, et al., Strategies To Suppress Aggregation of Recombinant Keratinocyte Growth Factor during Liquid Formulation Development, 1994, 83(12), p.1657-61		1-4	
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1.				
because extent t	Nos.: 1-4 (part) they relate to parts of the international application that do not comply with the prescribed requirements to such an hat no meaningful international search can be carried out, specifically: extra sheet.			
3. Claims because	Nos.: they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)			
This Internationa	l Searching Authority found multiple inventions in this international application, as follows:			
ă i				
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1. As all reclaims.	equired additional search fees were timely paid by the applicant, this international search report covers all searchable			
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only	some of the required additional search fees were timely paid by the applicant, this international search report covers see claims for which fees were paid, specifically claims Nos.:			
	ired additional search fees were timely paid by the applicant. Consequently, this international search report is d to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Prot	est			

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Continuation of Box No.II-2 of continuation of first sheet (2)

Claims 1-4

The degree of the "low temperature" in the above claims is indefinite, so that the claims are not clear.

The stabilization of proteins is ascertained in Examples only at $7\,^\circ\text{C}, 4\,^\circ\text{C},$ and $1\,^\circ\text{C},$ so that whether the methods of the above claims are effective at temperatures higher than $7\,^\circ\text{C}$ or lower than $1\,^\circ\text{C}$ or not is unclear. Thus, the inventions of the above claims are inadequately supported and are not disclosed in a manner sufficiently clear and complete for the inventions to be carried out by a person skilled in the art.

No search has been made on the inventions which are inadequately supported by the description and are not clearly and completely disclosed in the description.

Claims 1, 2, 4

It is unclear what "proteins" can be stabilized by the addition of a citrate buffer in addition to "IgM" whose stabilization at low temperature is ascertained in Examples. Thus, the inventions of the above claims are inadequately supported by the description and are not disclosed in a manner sufficiently clear and complete for the inventions to be carried out by a person skilled in the art.

No search has been made on the inventions which are inadequately supported by the description and are not clearly and completely disclosed in the description.